

FIGURE 1

SCRPL13PWT	10	20	30	40	50
SCRPL13PWT	MSHRKYEAPRRHGHGLGFLPRKRAASIRARVKAFFKDDRSKPVALTSFLGYK				
SCRPL13PRO	MSHRKYEAPRRHGHGLGFLPRKRAASIRARVKAFFKDDRSKPVALTSFLGYK				
SCRPL13PWT	60	70	80	90	100
SCRPL13PWT	AGMTTIVRDLDRPGSKFHKREVEAVTVVDTPPVVVVGVGYYVETPRGLR				
SCRPL13PRO	AGMTTIVRDLDRPGSKFHKREVEAVTVVDTPPVVVVGVGYYVETPRGLR				
SCRPL13PWT	110	120	130	140	150
SCRPL13PWT	SLTTVWAEHLSDDEVKRRFYKKNWYKSKKKAFTTKYSAKYAQDGAGIERELAR				
SCRPL13PRO	SLTTVWAEHLSDDEVKRRFYKKNWYKSKKKAFTTKYSAKYAQDGAGIERELAR				
SCRPL13PWT	160	170	180	190	200
SCRPL13PWT	IKKYASVVRVVLVHTQIRKTPLAQKKKAHLAEIQLNGGSISEKVDWAAREHFE				
SCRPL13PRO	IKKYASVVRVVLVHTQIRKTPLAQKKKAHLAEIQLNGGSISEKVDWAAREHFE				
SCRPL13PWT	210	220	230	240	250
SCRPL13PWT	KTVAVDSVFEQNEMIDAI AVTKGHGFEVTHRWGTTKKLPRKTHRGRLRKVA				
SCRPL13PRO	KTVAVDSVFEQNEMIDAI AVTKGHGFEVTHRWGTTKKLPRKTHRGRLRKVA				
SCRPL13PWT	260	270	280	290	300
SCRPL13PWT	CIGAWHPAHVHMWSVARAGQRGYHSRTSINHHKIYRVGKGDDDEANGATSFDR				
SCRPL13PRO	CIGAWHPAHVHMWSVARAGQRGYHSRTSINHHKIYRVGKGDDDEANGATSFDR				
SCRPL13PWT	310	320	330	340	350
SCRPL13PWT	TKKTTITPMGGFFVHYGEIKNDFIMVKGCI PGNRKRRI VTLRKSLYTNTSRKA				
SCRPL13PRO	TKKTTITPMGGFFVHYGEIKNDFIMVKGCI PGNRKRRI VTLRKSLYTNTSRKA				

FIGURE 2

PRL3_RICE	10	20	30	40	50
RL3_YEAST	M S H R K K F E H P R R H G S L G F L P R K R S S R H R G K V K S F P K D D V S K P C H L T S F V G Y K				
	M S H R K K Y E A P R R H G H L G F L P R K R A A S I R A R V K A F P K D D R S K P V A L T S F L G Y K				
PRL3_RICE	60	70	80	90	100
RL3_YEAST	A G M T H I V R E V E K P G S K L H K K E T C E A V T I I E T P P L V I V G L V A Y V K T P R G L R				
	A G M T I I V R D L D R P G S K F H K R E V V E A V T V V D T P P V V V G V V G Y V E T P R G L R				
PRL3_RICE	110	120	130	140	150
RL3_YEAST	S L N S V W A Q H L S E E V R R R F Y K N W C K S K K A F T K Y A L K Y D S D A G K K E I Q M Q L				
	S L T V W A E H L S D E V K R R R F Y K N W Y K S K K A F T K Y S A K Y A Q D G A - - G I E R E L				
PRL3_RICE	160	170	180	190	200
RL3_YEAST	E K M K K Y A S I V R V I A H T Q I R K M K G L K Q K K A H L M E I Q I N G G T I A D K V D Y G Y K				
	A R I K K Y A S V V R V L V H T Q I R K - T P L A Q K K A H L A E I Q L N G G S I S E K V D W A R E				
PRL3_RICE	210	220	230	240	250
RL3_YEAST	F F E K E I P V D A V F O K D E M I D I I G V T K G K G Y E G V V T R W G V T R L P R K T H R G L R				
	H F E K T V A V D S V F E Q N E M I D A I A V T K G H G E E G V T H R W G T K K L P R K T H R G L R				
PRL3_RICE	260	270	280	290	300
RL3_YEAST	K V A C I G A W H P A R V S Y T V A R A G Q N G Y H H R T E M N K K V Y K I G K S G Q E S H A A C T				
	K V A C I G A C H P A H V M W S V A R A G Q R G Y H S R T S I N H K I Y R V G K G D D E A N G A - T				
PRL3_RICE	310	320	330	340	350
RL3_YEAST	E F D R T E K D I T P M G G F P H Y G V V K G D Y L M I K G C C V G P K K R V V T L R Q S L L K O T				
	S F D R T K K T I T P M G G F V H Y G E I K N D F I M V K G C I P G N R K R I V T L R K S L Y T N T				
PRL3_RICE	360	370	380	390	
RPL3_YEAST	S R L A L E E I K L K F I D T S S K F G H G R F Q T T D E K Q R F F G K L K A				
	- S R K A L E E V S L K K W I D T A S K F G K G R F Q T P A E K H A F M G T L K K D L				

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FIGURE 3

Broad host range plasmid Bin 19, complete sequence.
11777 bp

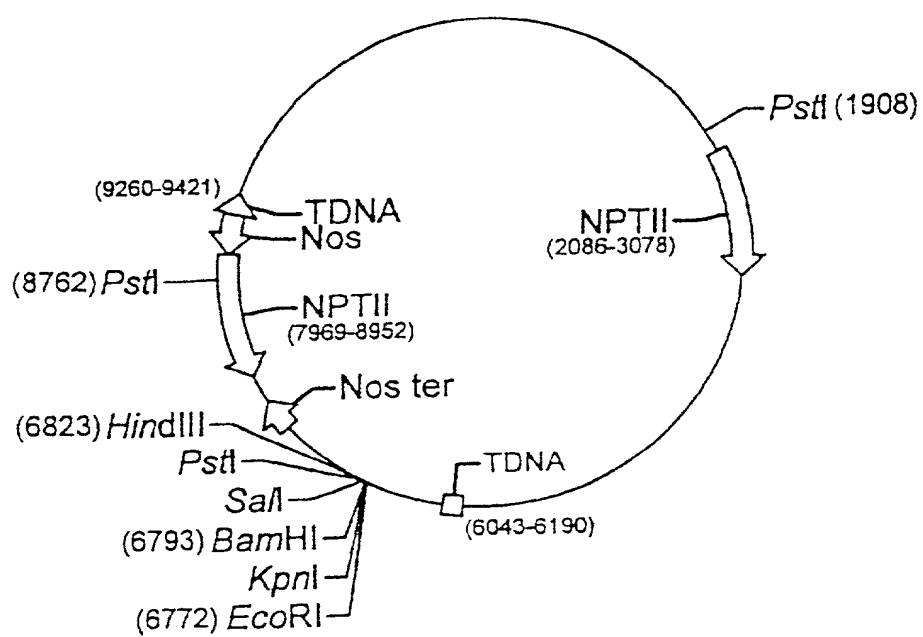


FIGURE 4

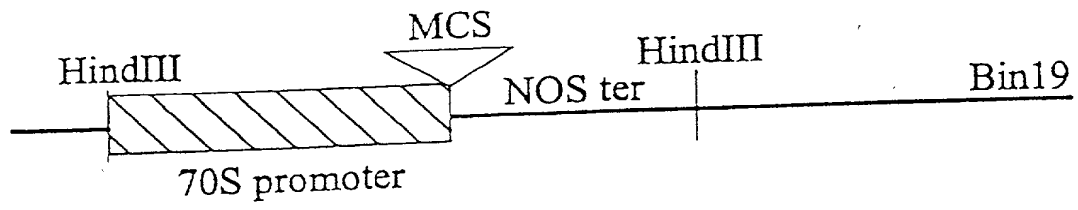
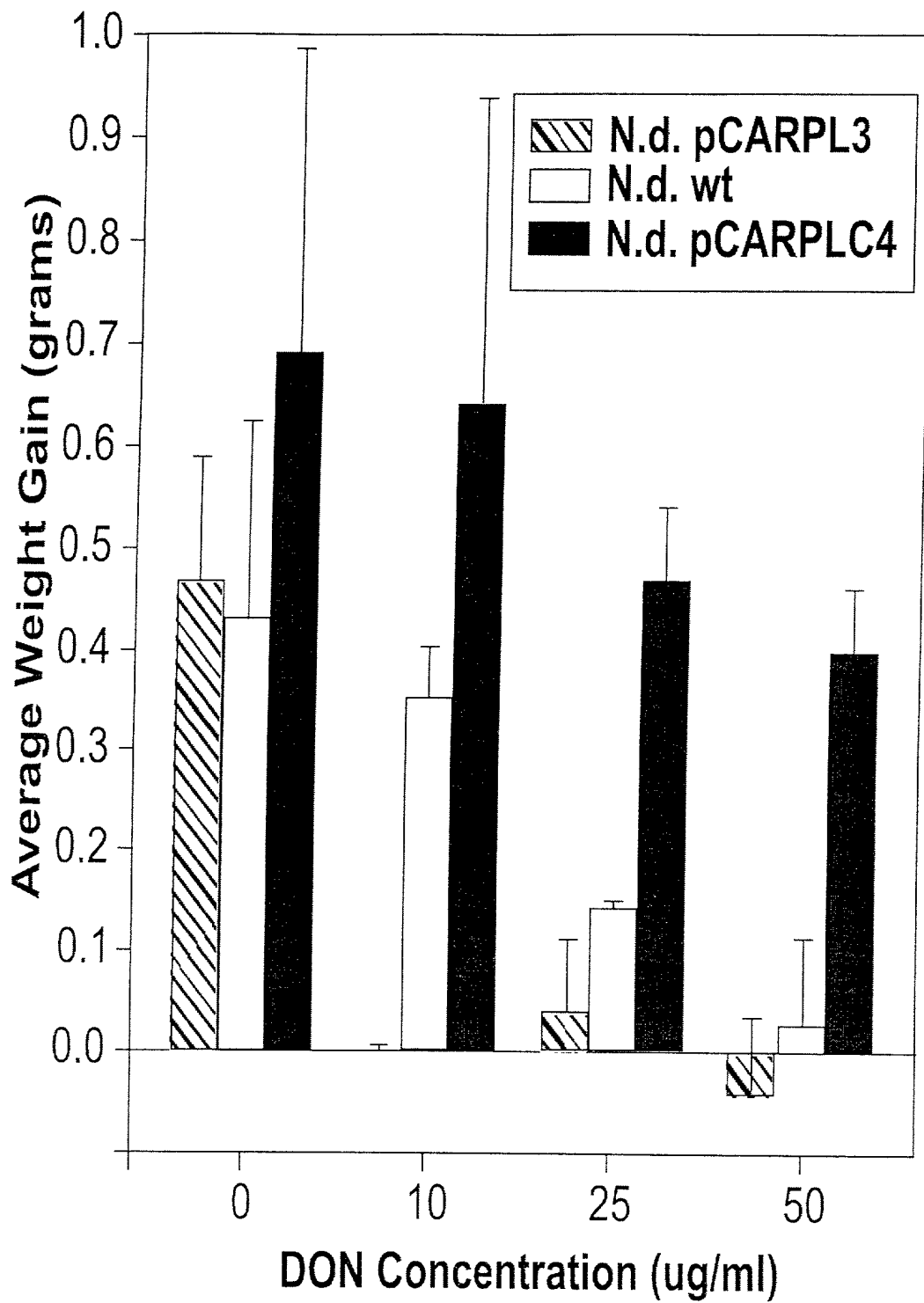




FIGURE 6



maize1.SEQ
maize2.SEQ
sorghum1.seq
sorghum2.seq
wheat.seq
barley.seq
oat.seq
rice.SEQ

FIGURE 7A

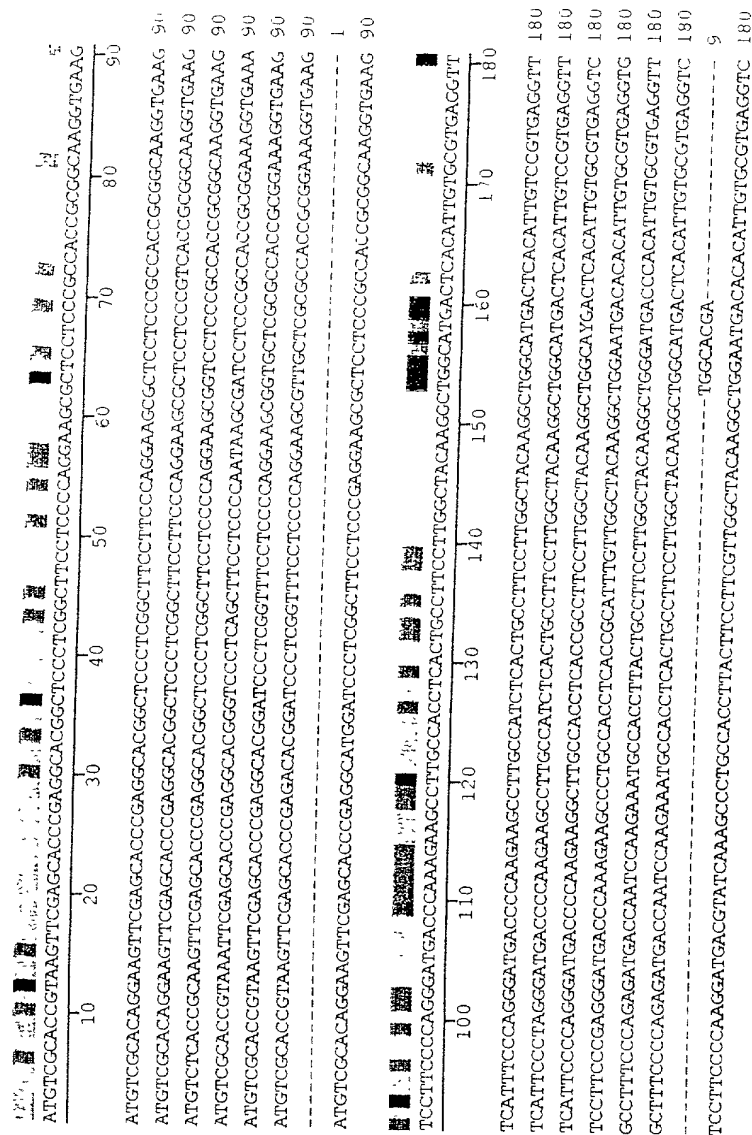


FIGURE 7B

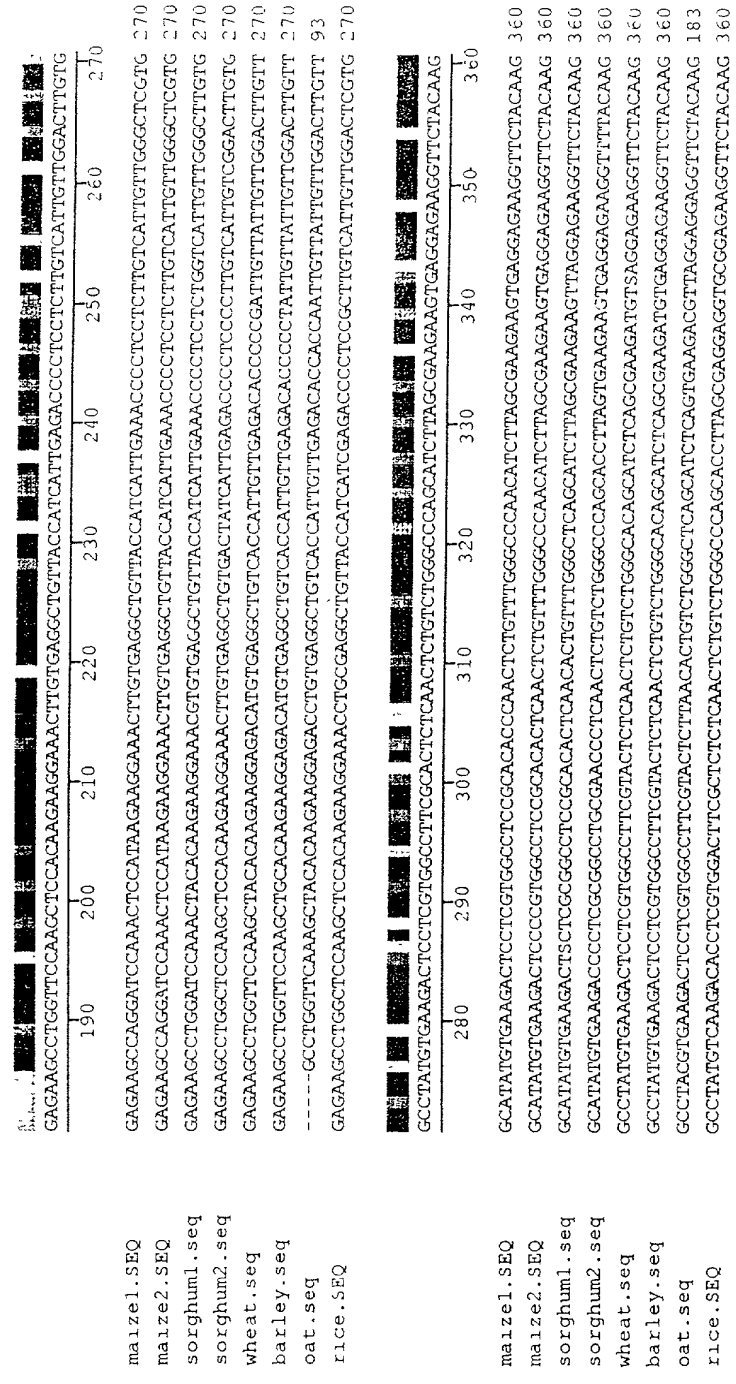


FIGURE 7C

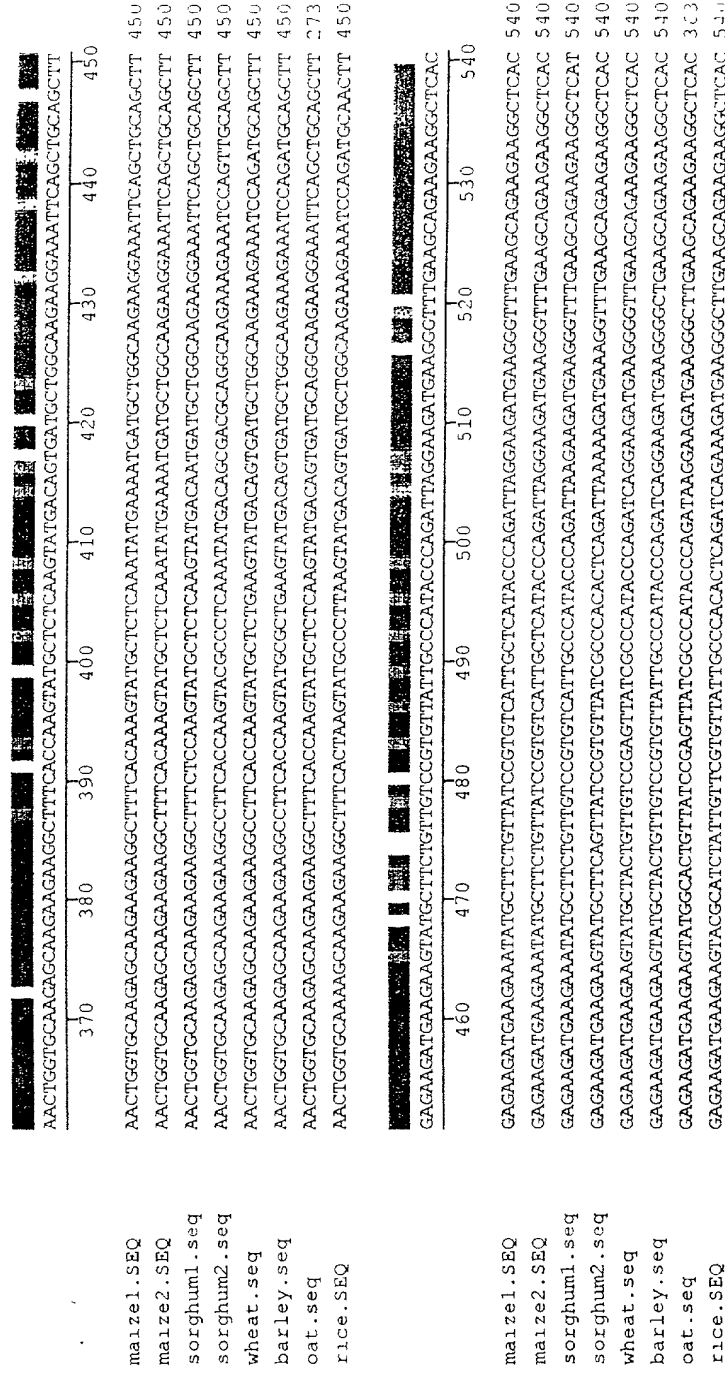


FIGURE 7D

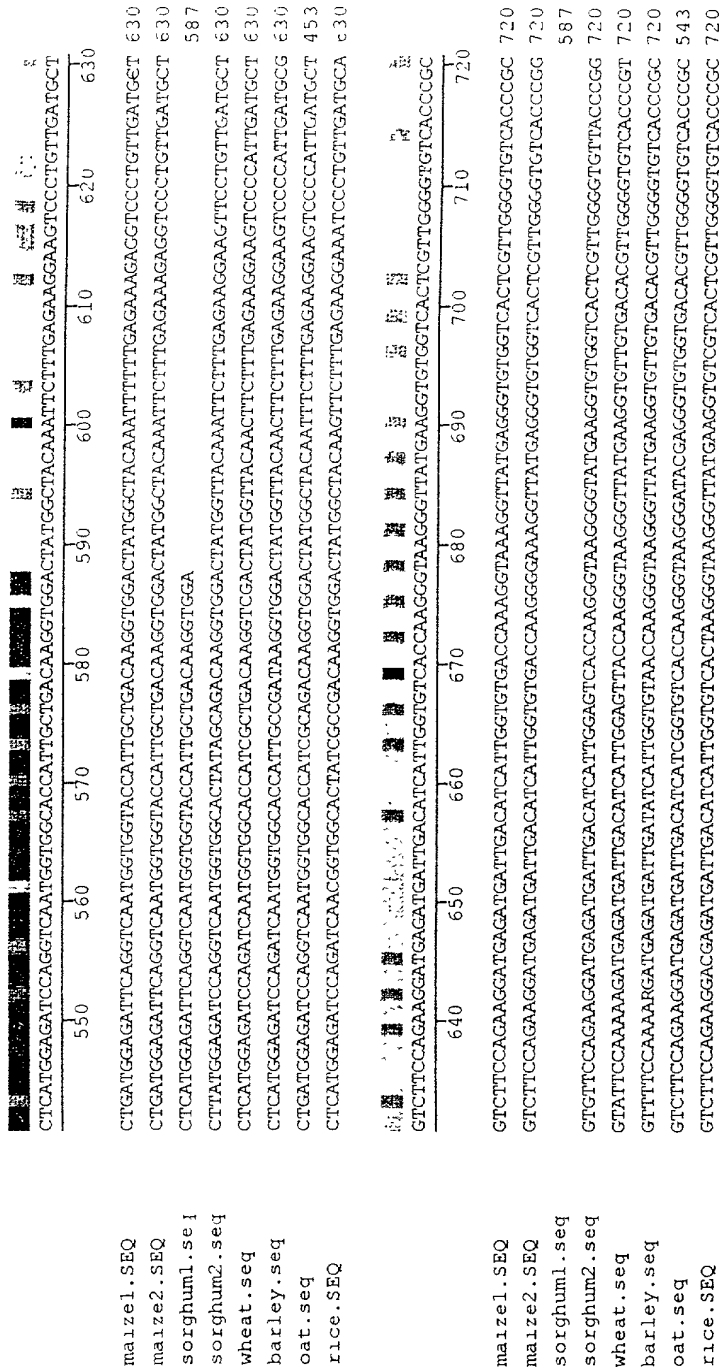
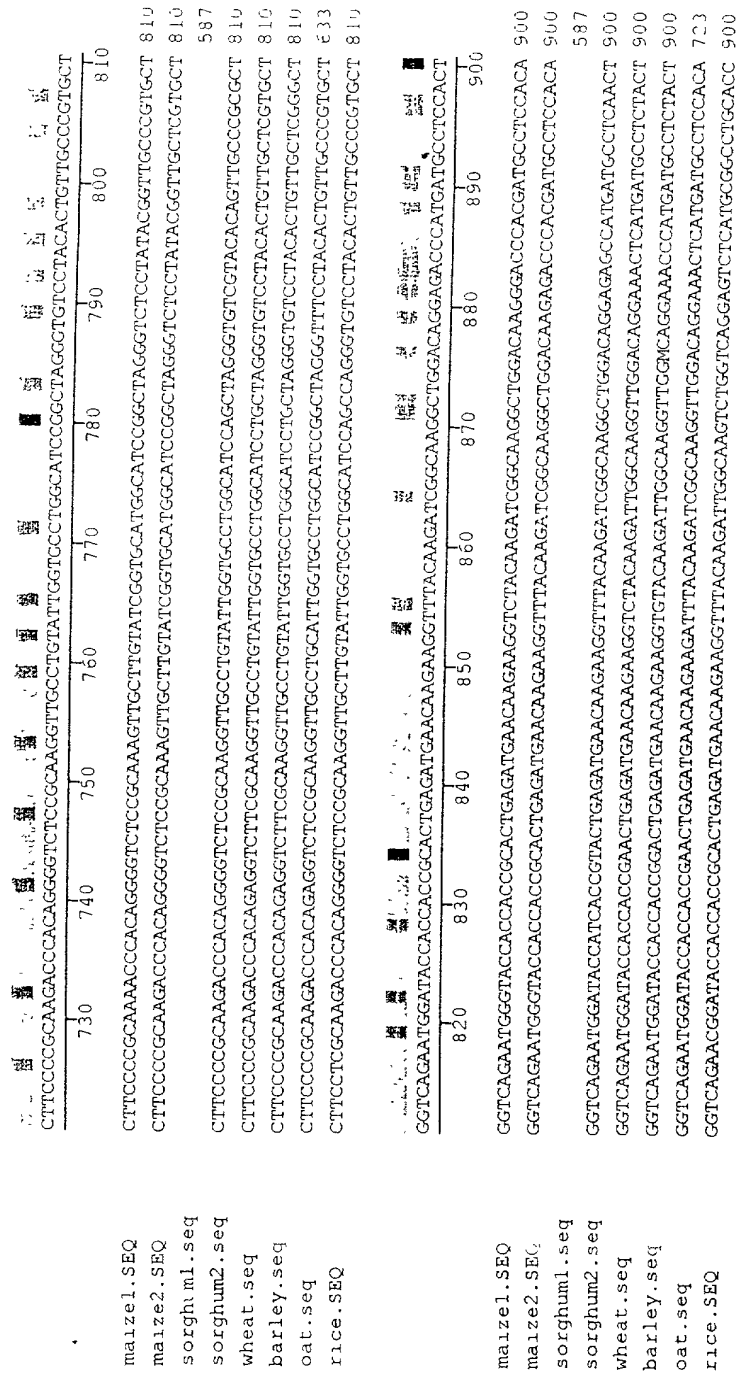


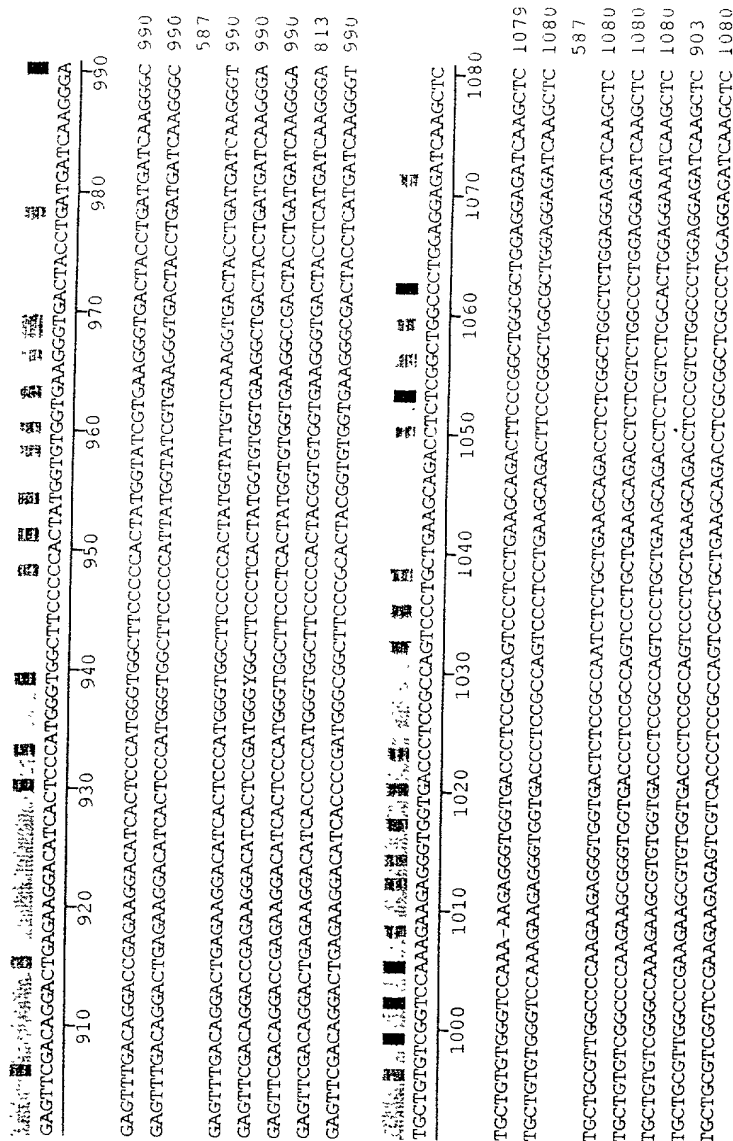
FIGURE 7E

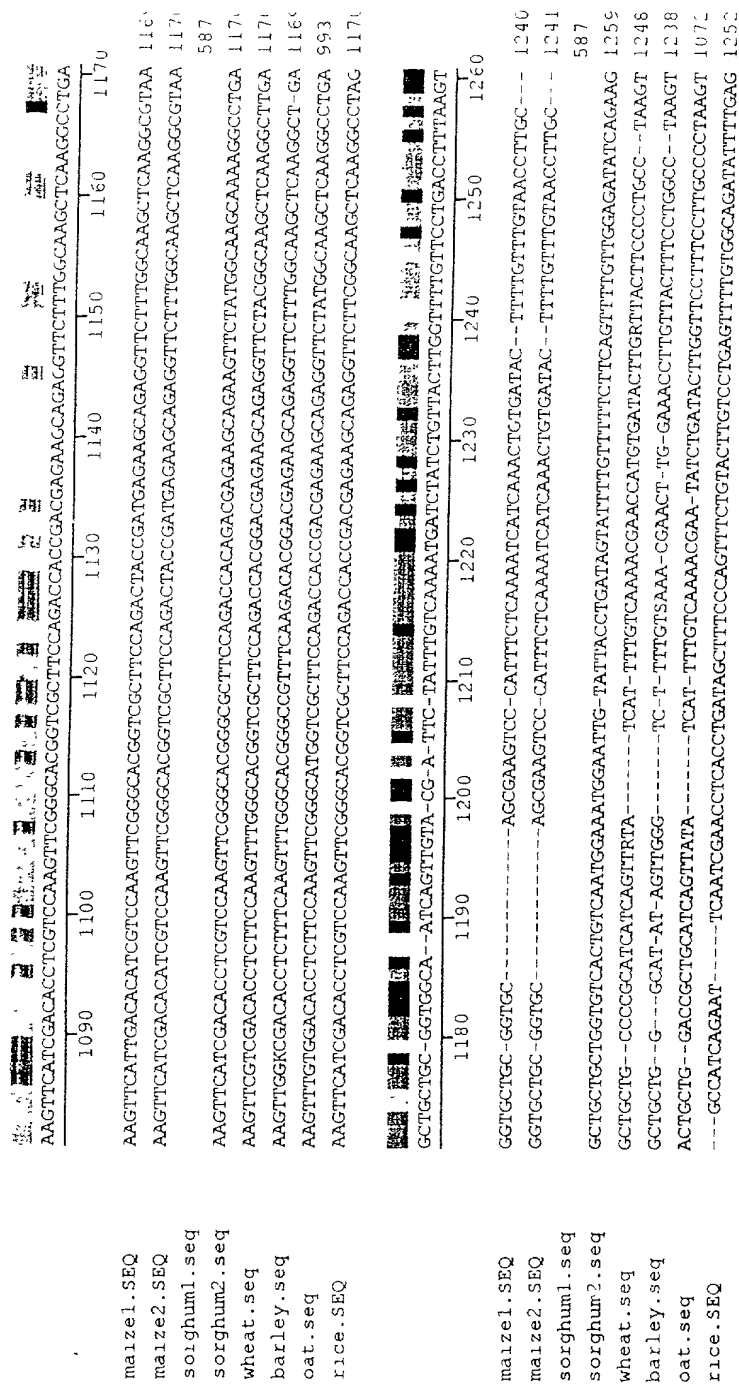


maize1.SEQ
maize2.SEQ
sorghum1.seq
sorghum2.seq
wheat.seq
barley.seq
oat.seq
rice.SEQ

maize1.SEQ
maize2.SEQ
sorghum1.seq
sorghum2.seq
wheat.seq
barley.seq
oat.seq
rice.SEQ

FIGURE 7F





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TTTGTA--T-CTGAAGTTTTG-TAGTCGTG-GCCGTTTATGAAT--GGATGGTTCATGTCGTG-G---TAAGG-TTGCAATTXXXXXXX



maize1.SEQ	1281
maize2.SEQ	1282
sorghum1.seq	587
sorghum2.seq	1330
-TG	1344
M-GTGG	1319
A-AAAA	1144
A-AAAA	1347
ATGTTTT	
rice.SEQ	

FIGURE 8A

* * * * *

maize	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDPKKPCHLTAFL	47
sorghum	MSHRKFEHPRHGSLSFLPNKRSSRHRGKVKSFPRDDPKKPCHLTAFL	
wheat	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDQSKPCHLTAFL	
barley	MSHRKFEHPRHGSLGFLPRKRCSRHRGKVKAFPRDDQSKKCHLTAFL	
oat	
rice	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDVSKPCHLTSFV	

* * * * *

maize	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	95
sorghum	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	
wheat	GYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPLVIVGLVAYVKT	
barley	GYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPIVIVGLVAYVKT	
oatWHEPGSKLHKKETCEAVTIVETPPIVIVGLVAYVKT	
rice	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	

* * * * *

maize	PRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYENDA	141
sorghum	PRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYDSDA	
wheat	PRGLRTLNSVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYDSDA	
barley	PRGLRTLNSVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYDSDA	
oat	PRGLRTLNTVWAQHLSEDVRRRFYKNWCKSKKKAFTKYALKYDSDA	
rice	PRGLRSLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYDSDA	

* * * * *

maize	GKKEIQLQLEKMKKYASV IRVIAHTQIRKMKGKQKKAHLMEIQVNG	188
sorghum	GKKEIQLQLEKMKKYASV IRVIAHTQIKKMKGKQKKAHLMEIQVNG	
wheat	GKKEIQLQLEKMKKYASVVRVIAHTQIRKMKGKQKKAHLMEIQVNG	
barley	GKKEIQMQLEKMKKYATVVRVIAHTQIRKMKGKQKKAHLMEIQING	
oat	GKKEIQLQLEKMKKYGTV IRVIAHTQIRKMKGKQKKAHLMEIQVNG	
rice	GKKEIQMQLEKMKKYASI VRVIAHTQIRKMKGKQKKAHLMEIQING	

* * * [

maize	GTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	235
sorghum	GTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	
wheat	GTIADKVDYGYNFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	
barley	GTIADKVDYGYNFFEKEVP IDAVFQKDEMIDIIGVTKGKGYEGVVTR	
oat	GTIADKVDYGYNFFEKEVP IDAVFQKDEMIDIIGVTKGKGYEGVVTR	
rice	GTIADKVDYGYKFFEKE IPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	

FIGURE 8B

maize	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	280
sorghum	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	
wheat	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	
barley	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	
oat	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	
rice	WGVTRLPRKTHRGLRKVACIGAWHPARVSYTVARAGQNGYHHRTE	

* * * * *

maize	MNKKVYKIGKAGQETHDASTEFDRTEKDITPMGGFPHYG IVKGDYL	326
sorghum	MNKKVYKIGKAGQESHASTEFDRTEKDITPMGGFPHYG IVKGDYL	
wheat	MNKKVYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVKGDYL	
barley	MNKKVYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVKADYL	
oat	MNKK IYKIGKVGQETHDASTEFDRTEKDITPMGGFPHYGVVKGDYL	
rice	MNKKVYKIGKSGQESHAACTEFDRTEKDITPMGGFPHYGVVKGDYL	

* * * *

maize	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKF IDTSSKFGHGRF	374
sorghum	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKF IDTSSKFGHGRF	
wheat	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKFVDTSSKFGHGRF	
barley	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKLXDTSFKFGHGPF	
oat	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKFVDTSSKFGHGRF	
rice	MIKGCCVGPKKR VVTLRQSLLKQTSRLALEEIKLKF IDTSSKFGHGRF	

* * * * *

maize	QTTDEKQRFFGKLKA	389
sorghum	QTTDEKQKFGYKQKA	
wheat	QTTDEKQRFFGKLKA	
barley	QDTDEKQRFFGKLKAELLGI	
oat	QTTDEKQRFYKGLKA	
rice	QTTDEKQRFFGKLKA	

FIGURE 9

